



LIANG CHI INDUSTRY (THAILAND) CO., LTD.

COUNTER FLOW INDUCED DRAFT LBC TYPE COOLING TOWER SPECIFICATION

DATE :
TOWER MODEL NO. : LBC - T - 10
NO. OF SETS : 1

DESIGN & OPERATING CONDITIONS

WATER FLOW RATE. : 107 LPM.
HOT WATER TEMP. : 37 °C
COLD WATER TEMP : 32 °C
AMB. WET BULB TEMP. : 28 °C
FAN B.H.P. : 0.139 BHP
TOWER PUMP HEAD : 1.7 M
DRIFT LOSS OF WATER FLOW RATE : 0.2 %
EVAPORATION LOSS OF WATER FLOW RATE : 0.83 %
DESIGN WIND LOAD : 150 Kg / M²

STRUCTURAL DETAILS

OVERALL DIMENSION : 860 MM
DRY WEIGHT : 55 Kg
OPERATING WEIGHT PER TOWER : 200 Kg

CONSTRUCTION

TOWER SUPPORTER FRAME ASS'Y : F.R.P.
CASING : F.R.P.
CASING SUPPORTOR : NYLON
COLD WATER BASIN : F.R.P.
FILLING : P.V.C.
FILLING SUPPORTOR : H.D.G.S.
MECHANICAL EQUIPMENT SUPPORTOR : H.D.G.S.
INLET LOUVER : P.V.C.
BOLTS,NUTS & WASHERS : C.P.S.

LIANG CHI IND. (THAILAND) CO., LTD.	
TECHNIC DEPT.	
<input type="checkbox"/>	FOR REFERENCE
<input checked="" type="checkbox"/>	FOR APPROVAL
<input type="checkbox"/>	APPROVED
<input type="checkbox"/>	OTHER.....
DATE :	
TECHNIC BY :	



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WATER DISTRIBUTION

STAND PIPE	:	P.V.C.
SPRINKLER HEAD	:	NYLON
MODEL	:	LSH - 040
SPRINKLER PIPE	:	P.E.

MECHANICAL EQUIPMENTS

FAN UNIT

NO. OF UNIT	:	1	UNIT / SET
TYPE	:	AXIAL FLOW	
MODEL	:	LSF-050	
MANUFACTUROR	:	LIANG CHI IND.CO.,LTD.	
DIAMETER	:	500	MM
NO. OF BLADES	:	3	
FAN SPEED	:	945	RPM
TIP SPEED	:	33.1	M/S
BLADE MATERIAL	:	NYLON	
HUP MATERIAL	:	NYLON	
AIR VOLUME	:	100	M ³ / MIN/SET

FAN MOTOR

NO. OF UNIT	:	1	UNIT / SET
TYPE	:	TEFC	
INSULATION	:	CLASS F IP55	
MANUFACTUROR	:	LIANG CHI	
SPEED	:	945	RPM
RATED H.P	:	1/4	H.P * 6P
POWER SOURCE (VOLT / PHASE / HZ)	:	380 / 3 / 50	

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<u>PIPING CONNECTION</u>		SIZE		Q'TY / SET
WATER INLET	:	1 1/2	B (40 A)	1
WATER OUTLET	:	1 1/2	B (40 A)	1
AUTO FILL	:	1/2	B (15 A)	1
QUICK FILL	:	1/2	B (15 A)	1
OVER FLOW	:	1	B (25 A)	1
DRAIN	:	1	B (25 A)	1

REMARK

F.R.P : FIBERGLASS REINFORCE PLASTIC

H.D.G.S : HOT DIP GALVALNIZED STEEL

A.A. : ALUMINIUM ALLOY

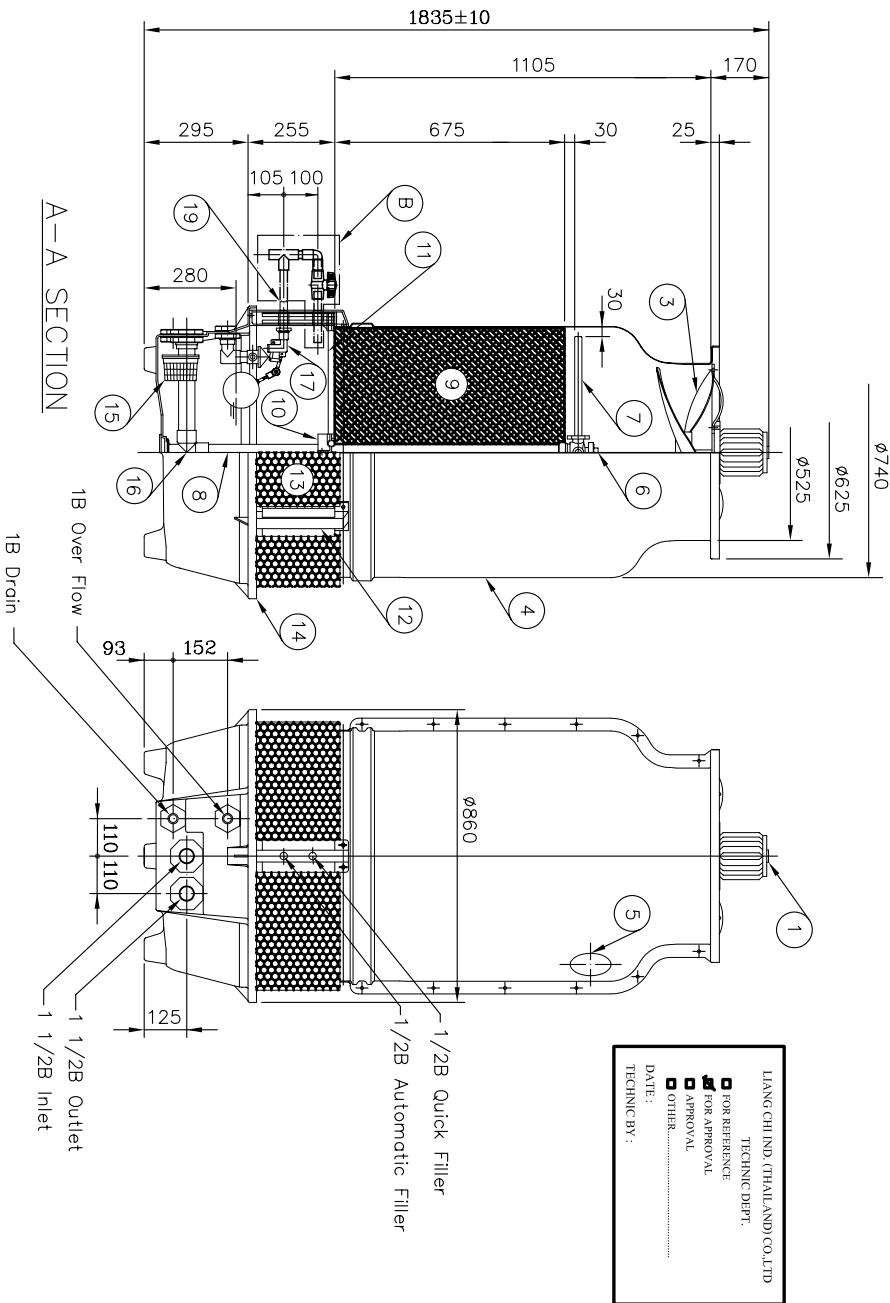
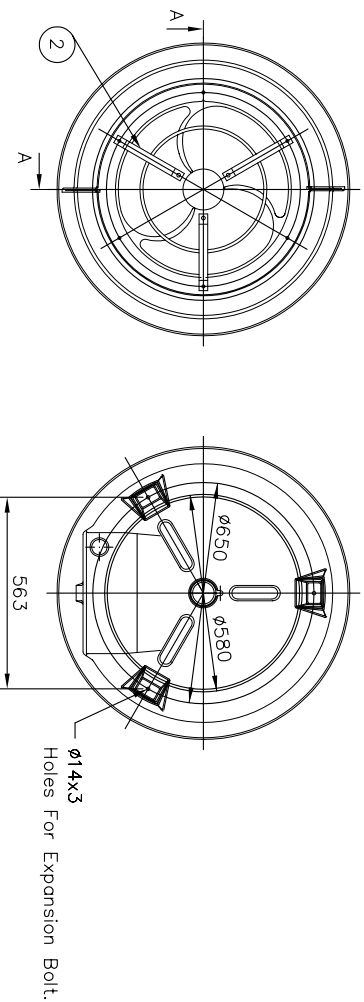
C.P.S. : CHROMATED - PLATING STEEL

DESIGNED : 

CHECK : 

APPROVE : 

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DATE :
TECHNIC BY :

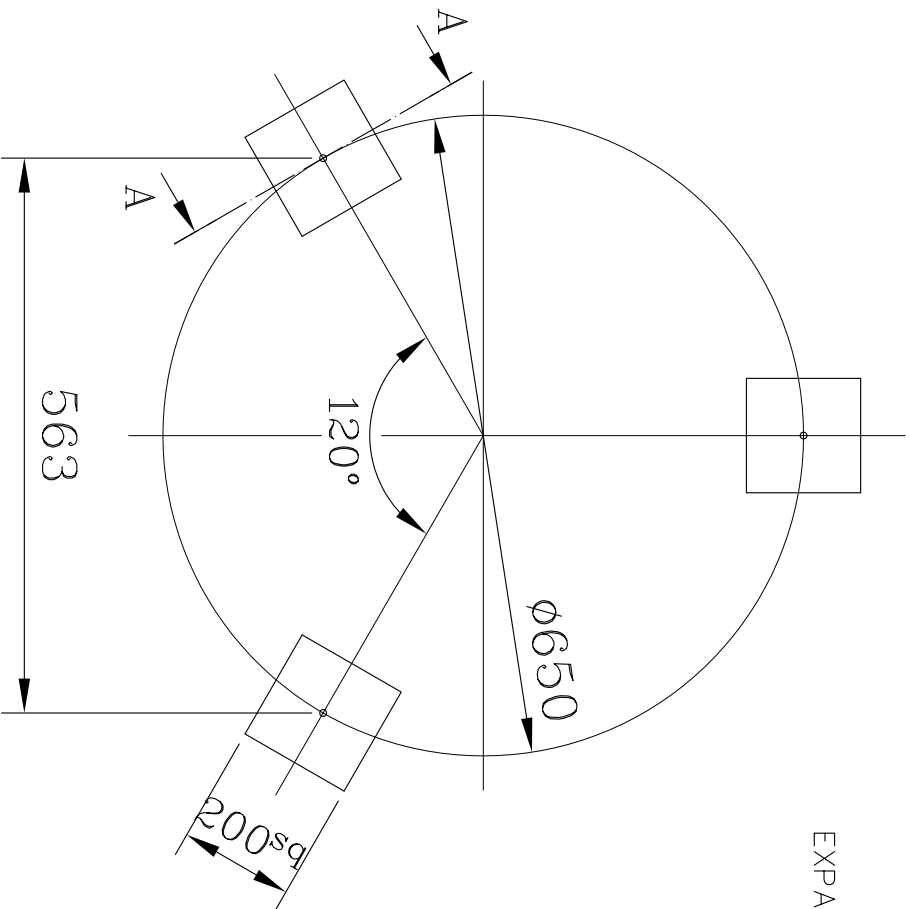


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OTHER
DATE: _____
TECHNIC BY: _____

Note: The piping of Quick filler and Automatic filler
(the part (B)) should be provided by customer.

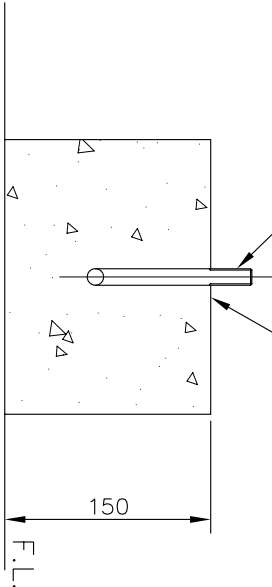
Description	M.T	Specification	Q'ty
1 Fan Motor		1/4HP*6P	1 PCS
2 Motor Framework Ass'y	H.D.G.S		1 PCS
3 Fan	Nylon	LSF-050	1 SET
4 Casing	F.R.P.		2 PCS
5 Hand Hole	E.V.A.		1 PCS
6 Sprinkler Head	NYLON	LSH-040	1 PCS
7 Sprinkler Pipe	P.E.		4 PCS
8 Stand Pipe	P.V.C.		1 PCS
9 Filling	P.V.C.		1 SET
10 Stopper or Column	A.A.		1 SET
11 Filling Supporter	H.D.G.S		1 SET
12 Casing Supporter	NYLON		3 PCS
13 Inlet Louver	P.V.C.		1 SET
14 Water Basin	F.R.P.		1 PCS
15 Strainer	P.E.		1 PCS
16 Stand Pipe Base	P.V.C.		1 SET
17 Float Valve Ass'y	P.E.		1 SET
18			
19 Connector	P.V.C.		1 PCS
20			

Drain	25A (1 B)	Over Flow	25A (1B)
Outlet	40A (1 1/2B)	Quick Filler	15A (1/2B)
Inlet	40A (1 1/2B)	Automatic Filler	15A (1/2B)
Pipe Connections			
Dry Weight	55 kgs	Operating Weight	200 kgs
Loading Data			
Ambient Wetbulb	: 28 °C	Air Volume	: 100 M ³ /MIN
Outlet Water Temp	: 32 °C	Water Flow	: 107 LPM
Inlet Water Temp	: 37 °C	Cooling Capacity	: 32,100 Kcal/HR
Design Condition			
REV.	DATE	DWG BY	APP.
TITLE			
OUTLINE VIEW			
APP.	K.Somatos	DESIGN	Amnot
CHECK	SURASAK	DWG BY.	Amnot
LIANG CHI INDUSTRY (THAILAND) CO., LTD.			LBC-T-10-01
223 MOO 9 TAB-YAO, LAD-KRABANG BANGKOK 10520			
(NUM KRAI INDUSTRIAL ZONE LUANG-PAENG RD.)			



Water Inlet

EXPANSION BOLT (BY LIANG CHI)



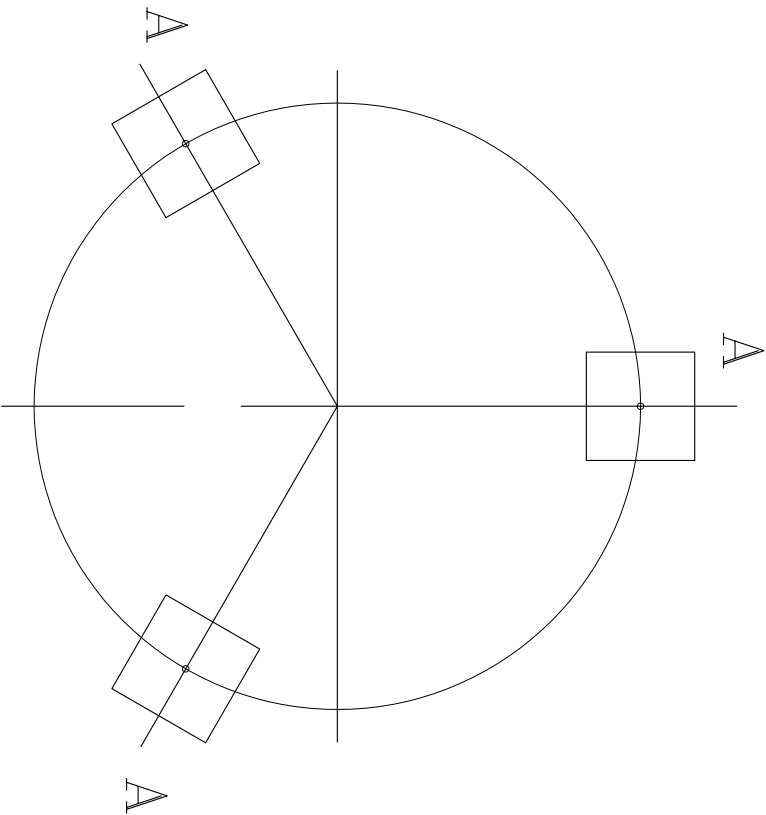
A-A SECTION

REMARK :

1. THIS FOUNDATION DRAWING IS PROVIDED FOR END USER'S REFERENCE.
 2. COOLING TOWER DOES NOT INCLUDE FOUNDATION
 3. THE LEVEL TOLERANCE OF FOUNDATION IS ±2 mm.
 4. THE HEIGHT OF FOUNDATION EXCLUDES THERMAL ISOLATOR AND WATER PROOF.
 - * 5. EXPANSION BOLT & RUBBER PAD SHALL BE FURNISHED BY LIANG CHI
- (PLEASE DON'T PREPARE HOLE OF EXPANSION BOLT BEFORE INSTALLATION)

LIANG CHI IND. (THAILAND) CO.,LTD
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☐ FOR REFERENCE
☒ FOR APPROVAL
☐ APPROVAL
☐ OTHER.....
 DATE :
 TECHNIC BY :

REV.	DATE	DWG BY	APP.	NOTE	
TITLE		LBC-T-10			
		Concrete Foundation			
APP.	K.Somnong	DESIGN	Amnat	MM	✗
CHECK	SURASAK	DWG BY	Amnat	DWG-NO	
LIANG CHI INDUSTRY (THAILAND) CO., LTD. 223 Moo 9 Tab-Yao,Lad-KRABANG BANGKOK 10520 (NUM KRAI INDUSTRIAL ZONE LUANG-PAENG RD.)					LBC-T-10-02



UNIT : KG.

LBC-T-10	A
66.7	

LIANG CHI IND. (THAILAND) CO.,LTD

TECHNIC DEPT.

☐ FOR REFERENCE

☒ FOR APPROVAL

☐ APPROVAL

☐ OTHER.....

DATE:

TECHNIC BY:

REV.	DATE	DWG BY	APP.	NOTE		
TITLE	LBC-T-10					
	Loading Data					
	APP.	K.Somnogs	DESIGN	Amnat	MM	✕
CHECK	SURASAK	DWG BY	Amnat	DWG-NO		
LIANG CHI INDUSTRY (THAILAND) CO., LTD. 223 Moo 9 Tab-Yao,Lad-Krabang Bangkok 10520 (NUM KRAI INDUSTRIAL ZONE LUANG-PAENG RD.)				LBC-T-10-03		